



TSC Samuel Goldwyn Theater Alignment Report

December 2024

With the support of Academy team members Brendan Connell, Jr. and Rose Wuyts-Wilson, we were thrilled to relaunch the Theater Standards Committee (TSC) this year! Our focus remains the same as before: to ensure that the theaters of the Academy remain the standard by which all others are judged. Our new TSC charter aligns us with our obligations under Sound Branch Rule number Twenty-One, Special Rules for the Sound Award, article 12.

From Dec 2-5 a group of TSC volunteers, a subset of the entire TSC, met to perform testing and maintenance in the Samuel Goldwyn theater (SGT). This work group inspected all speakers and performed sine wave sweeps to discover any loose components or vibration issues. Most of the first 2 days were spent in this effort using both scaffolding and a man-lift. The speakers that were problematic all were tightened and had thread locker added for extra protection.



The SGT contains an Atmos capable sound system and is equipped with 44 full range, high powered surround speakers of three different types. The side and rear surrounds are dual 12” LF with 4” compression driver and horn HF, in two different configurations—one vertically oriented, and one horizontally oriented, custom designed to fit into the actual space available behind the fabric panels. The overhead surrounds are single 15” LF with 3” compression driver and horn HF. There are two dual 18” surround bass management subwoofers, one in each of the two public address bays above the stage exits.



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Following frequency sweeps the entire system was checked for frequency response and conformance to the industry accepted X-Curve. Minor adjustments were made that are consistent with normal driver aging and duty cycle.

The film projector analog optical A-Chains have been verified and aligned for both the Norelco AA2 35/70 projectors. During alignment a headroom issue was discovered in the analog preamps causing premature clipping. With assistance from Bill Hogan, replacement Kinoton designed retrofit units are being sourced to solve this problem. Additionally, another of our legacy formats, SDDS, failed and will require further work to restore. These formats are both part of our legacy capability and will not be an issue for this year's nomination screenings.

Calibration and alignment of the Dolby Digital reader heads and processors were also confirmed, as was the operation of the DTS 70mm readers and processor. In addition, the point at which we align SPL was moved from 3 rows behind the console/cross-aisle to the row directly in front of the console. The measured difference in SPL from the two points is approximately 2.5dB and we expect that to track well with the trends we are seeing in movie loudness. More report details follow below.

This committee depends on the expertise and volunteer time of the best in the industry. Special thanks go out to those present for the workdays - Andy Potvin, Bryan Pennington, Gary Meisner, Jay Palmer, Dan Abrams, Jim Austin, Steve Levy, Bill Hogan, and Doug Greenfield. Additionally, special thanks to Brendan, Rose, and other members of the Academy team for their help and support, including Richard Martinez, Colin Brandt, Taso Georgakis, and Maddy Hiller.

We thank you all for the time you contributed to this year's alignment effort and for your continuing support of the Academy and our Theater Standards Committee.

A handwritten signature in black ink, appearing to read "Kevin Collier".

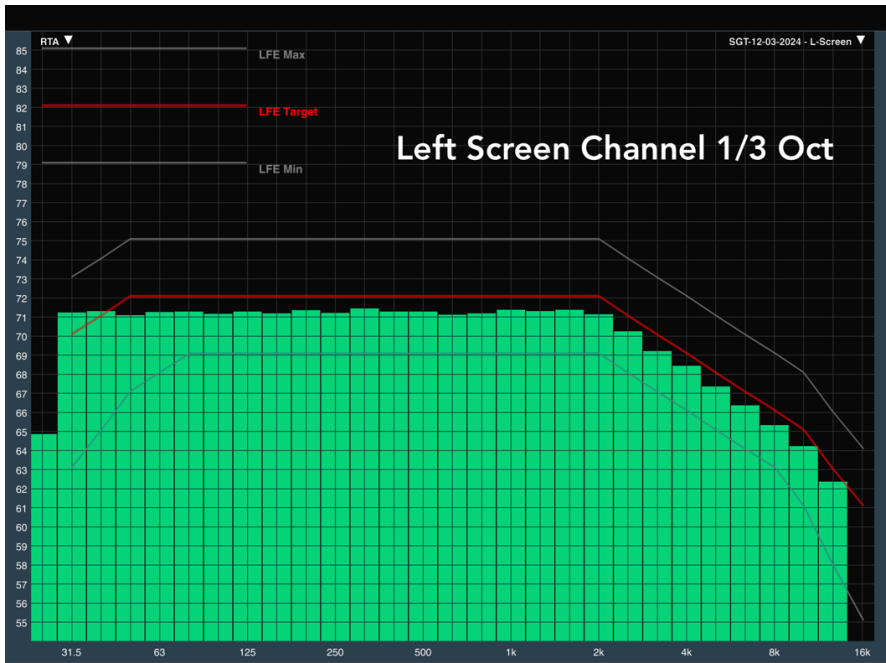
Kevin Collier, Chairman



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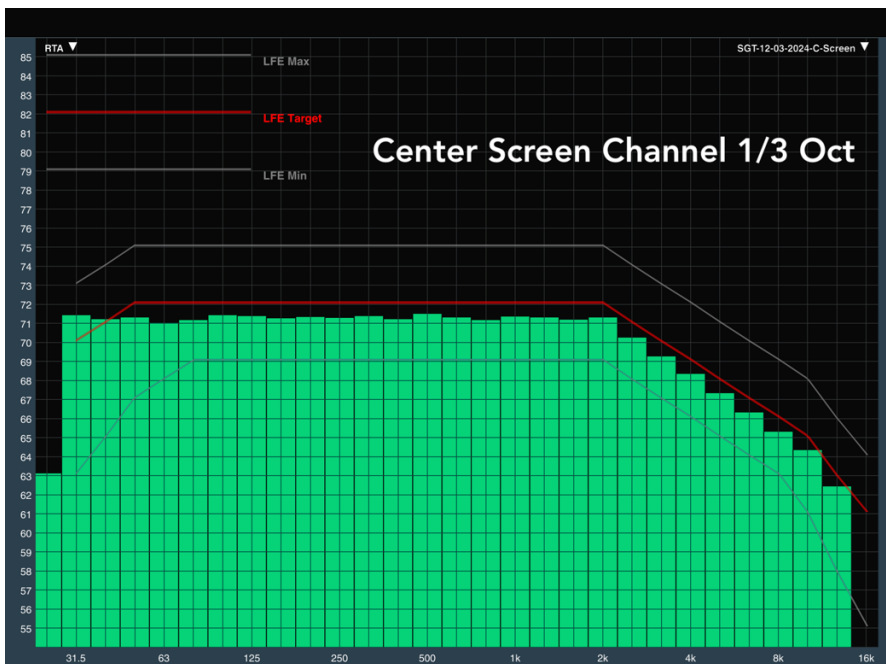
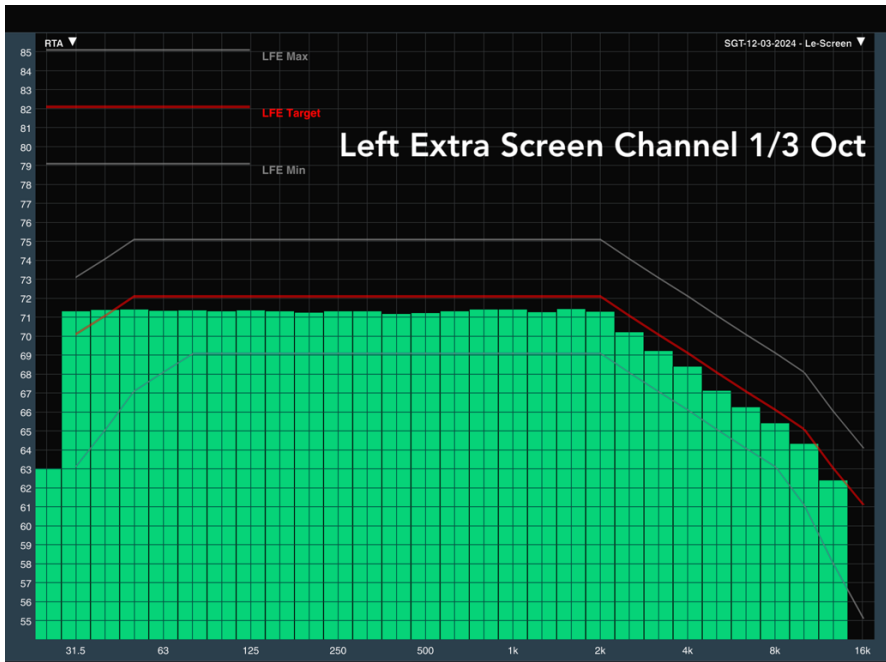
Alignment Traces





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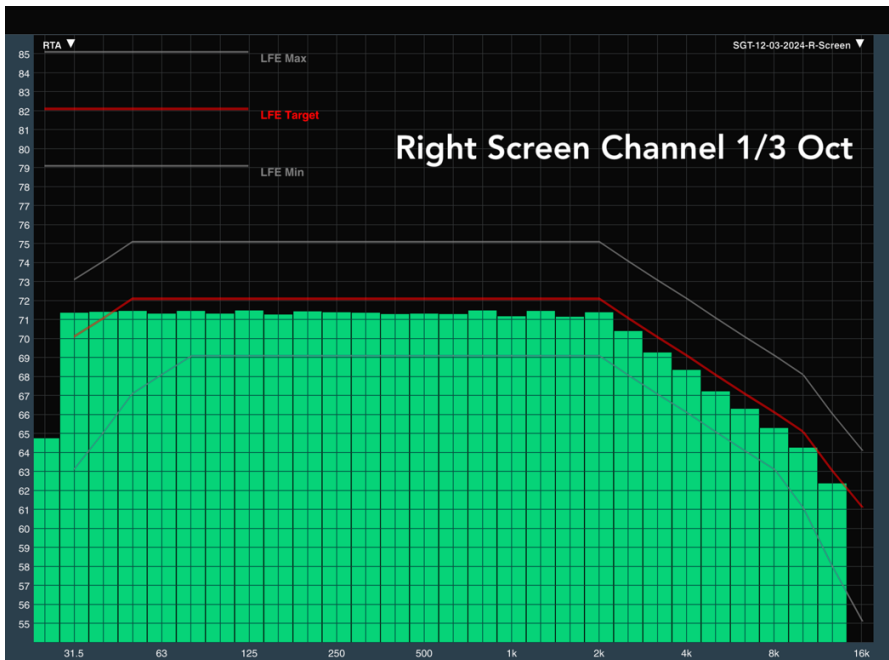
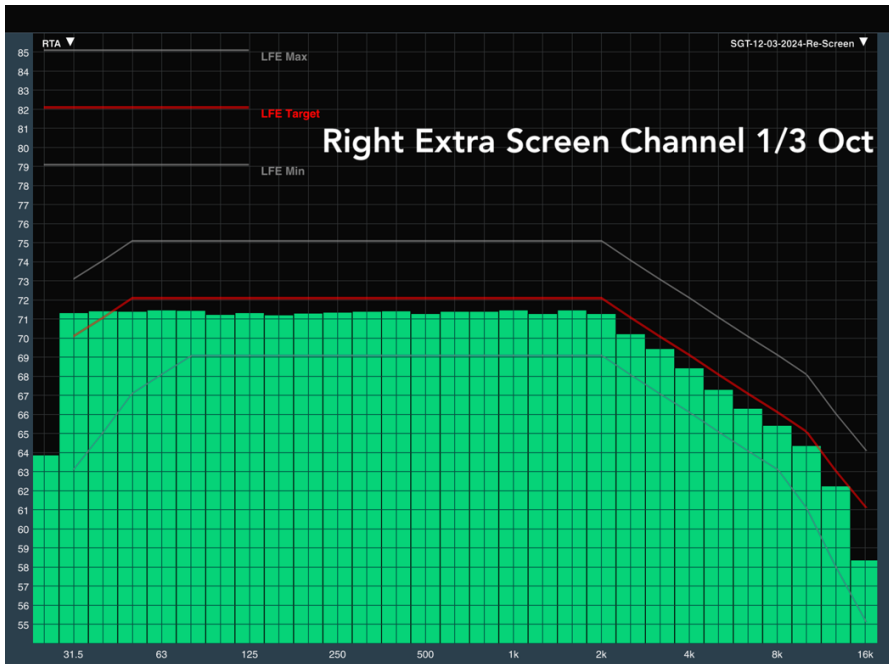
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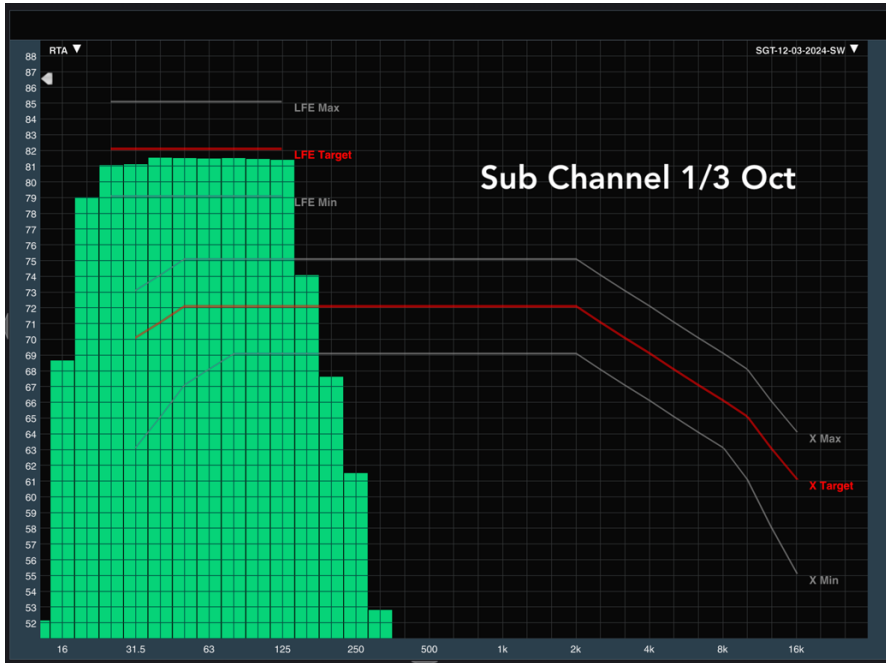
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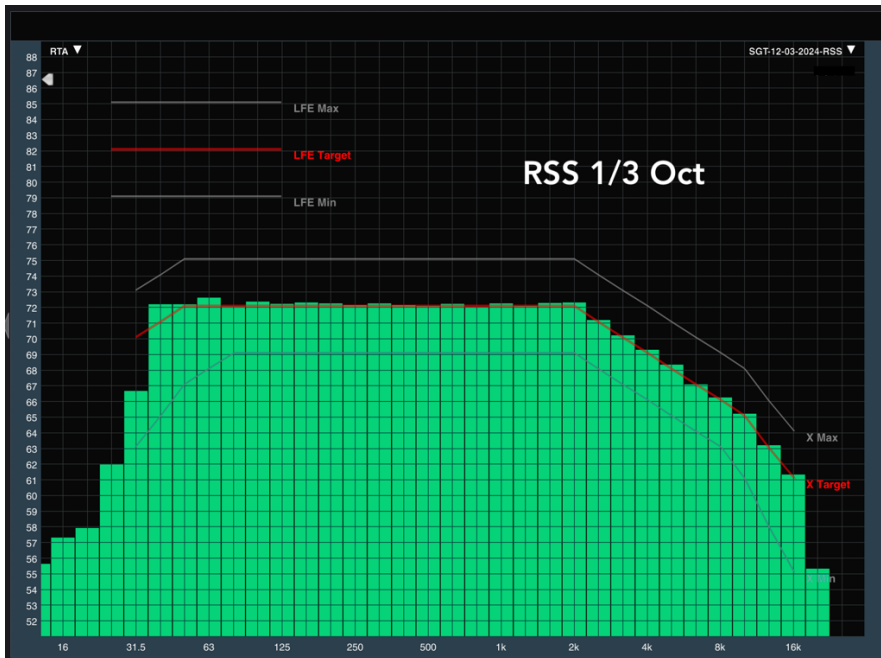
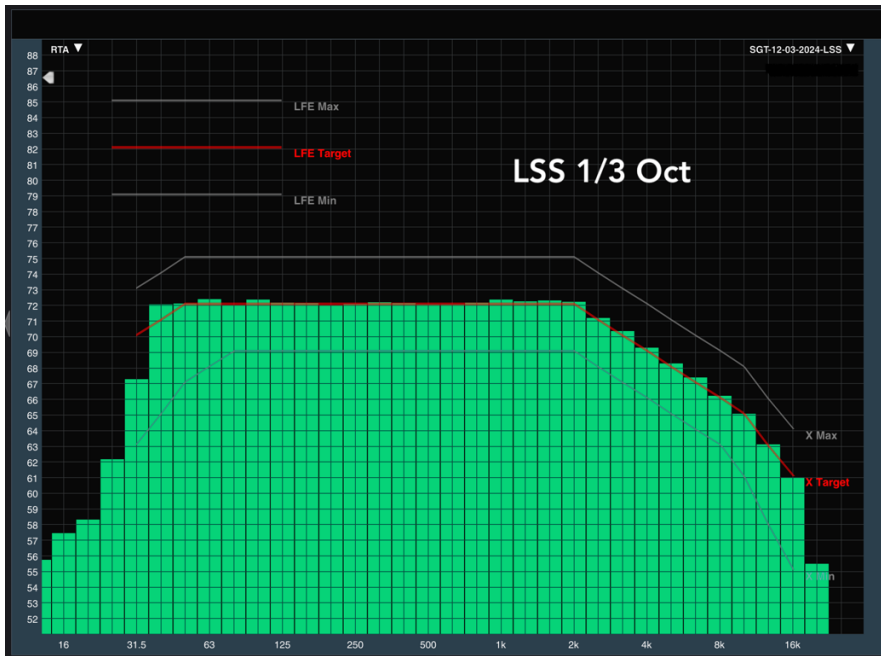
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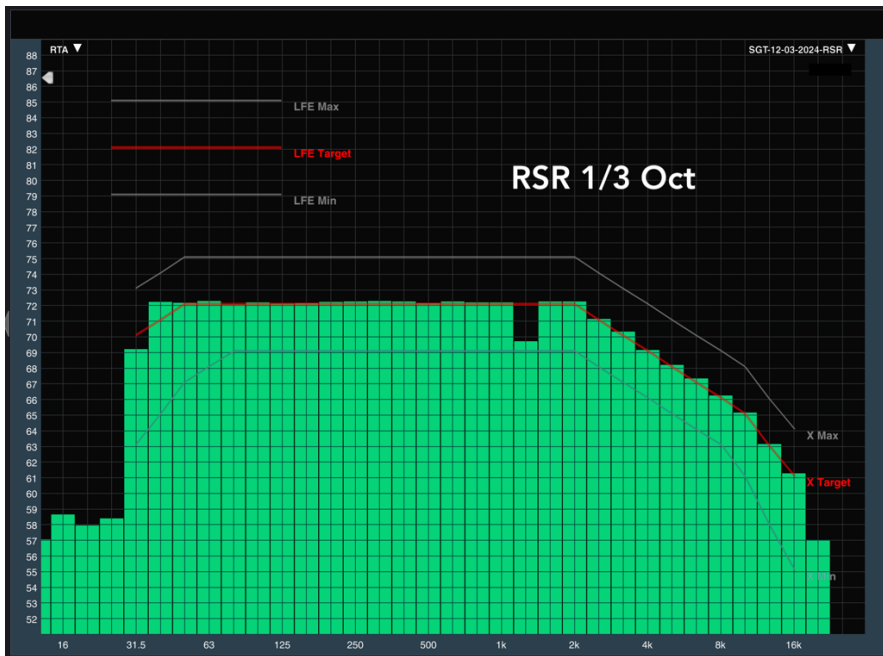
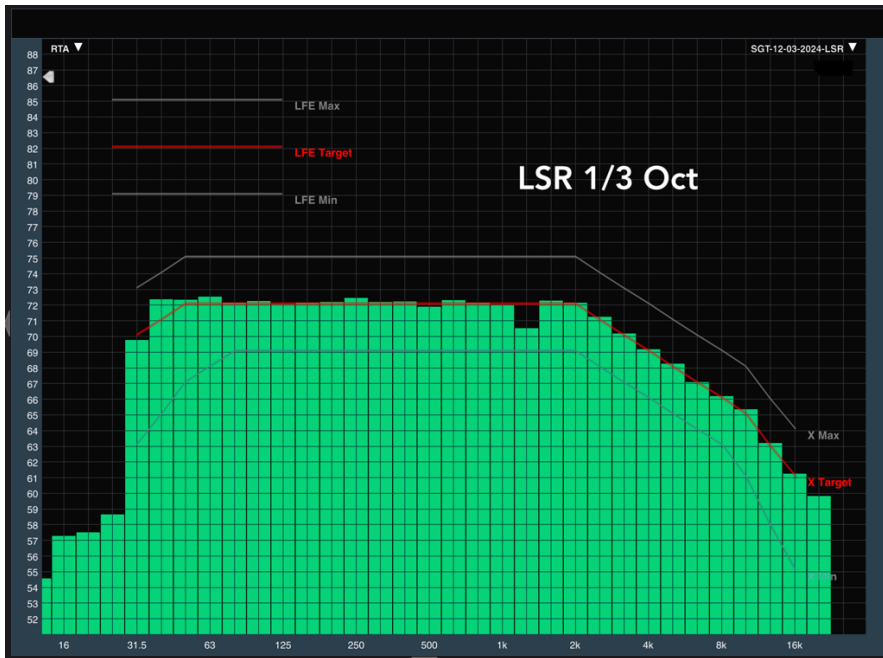
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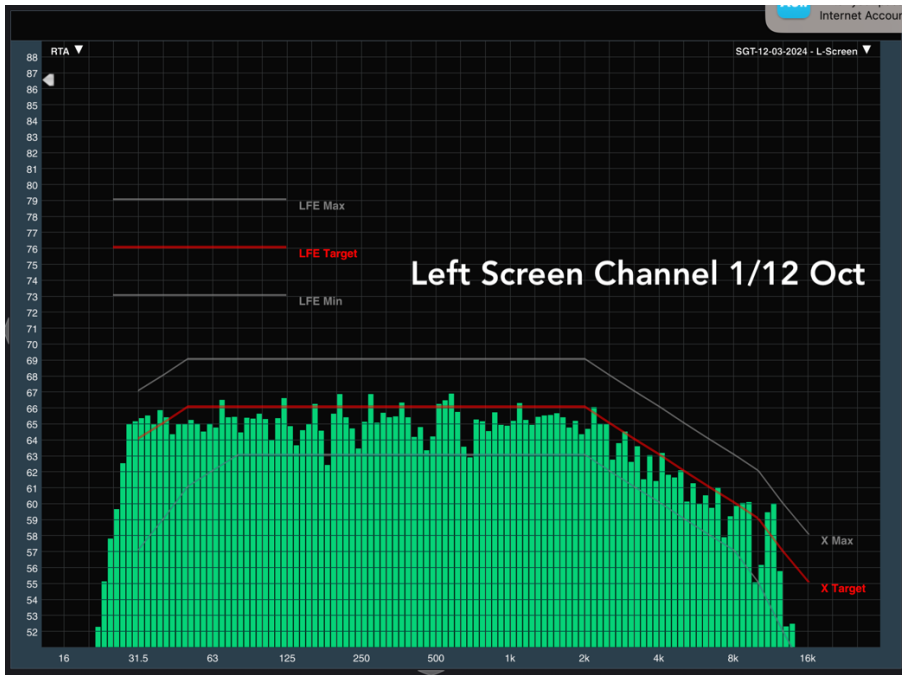
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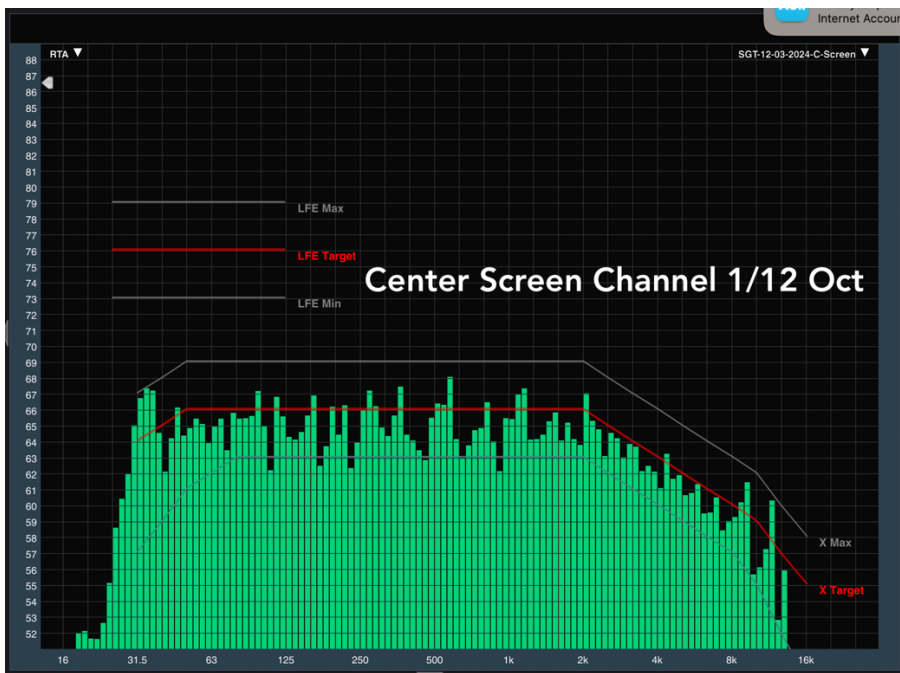
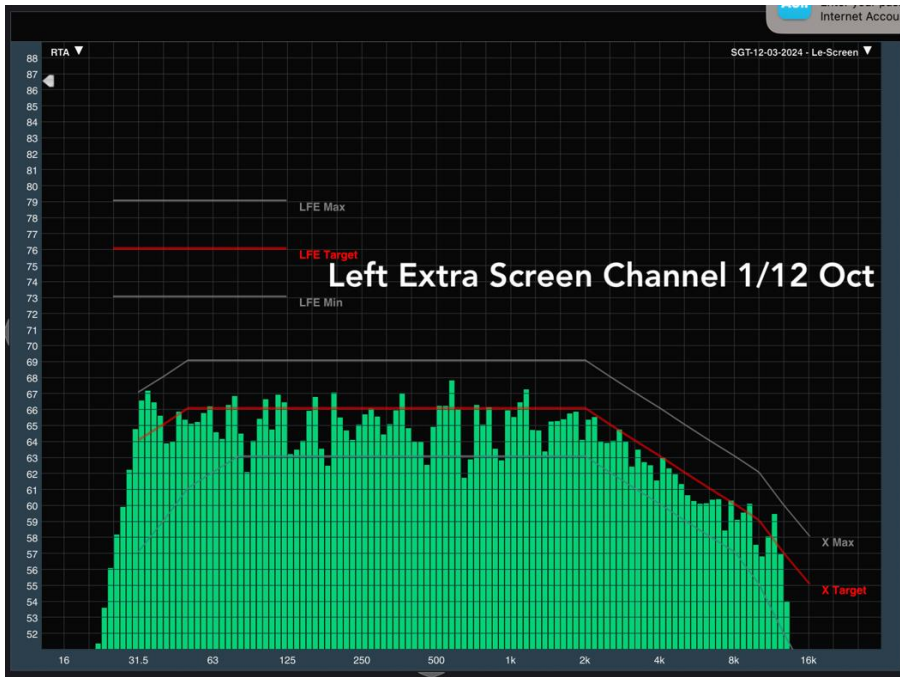
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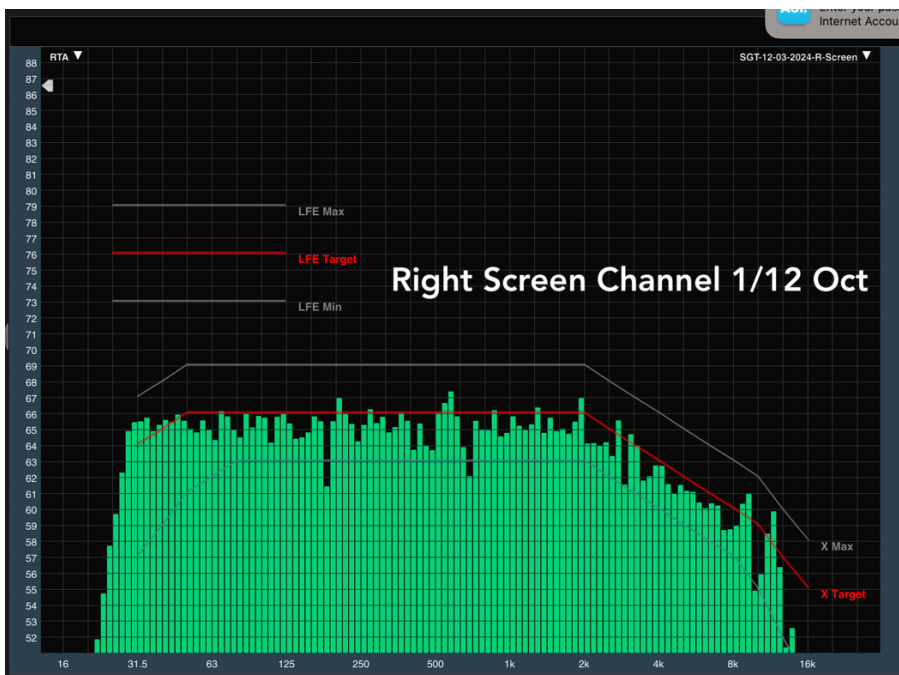
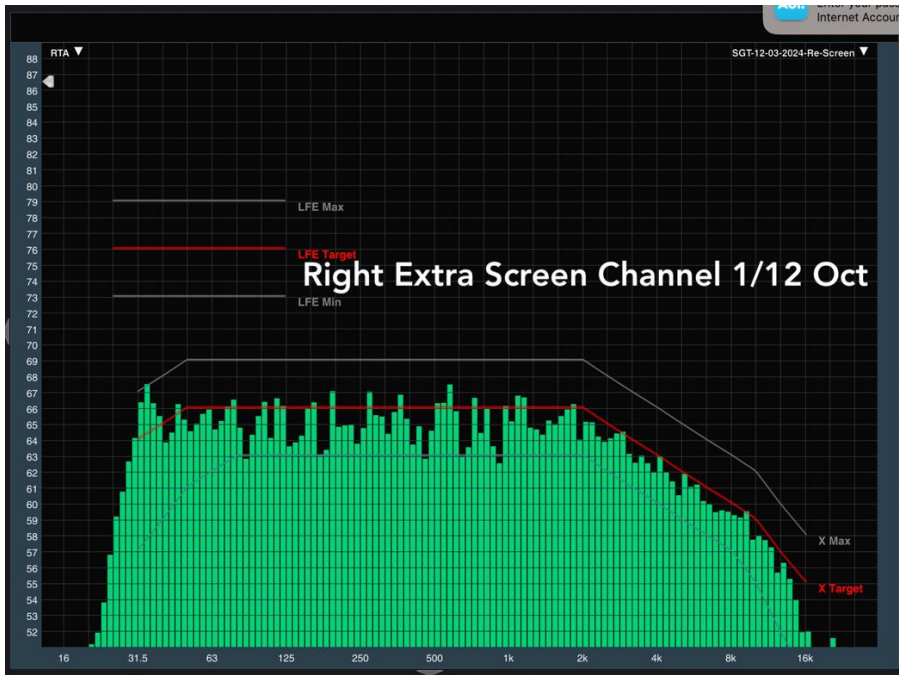
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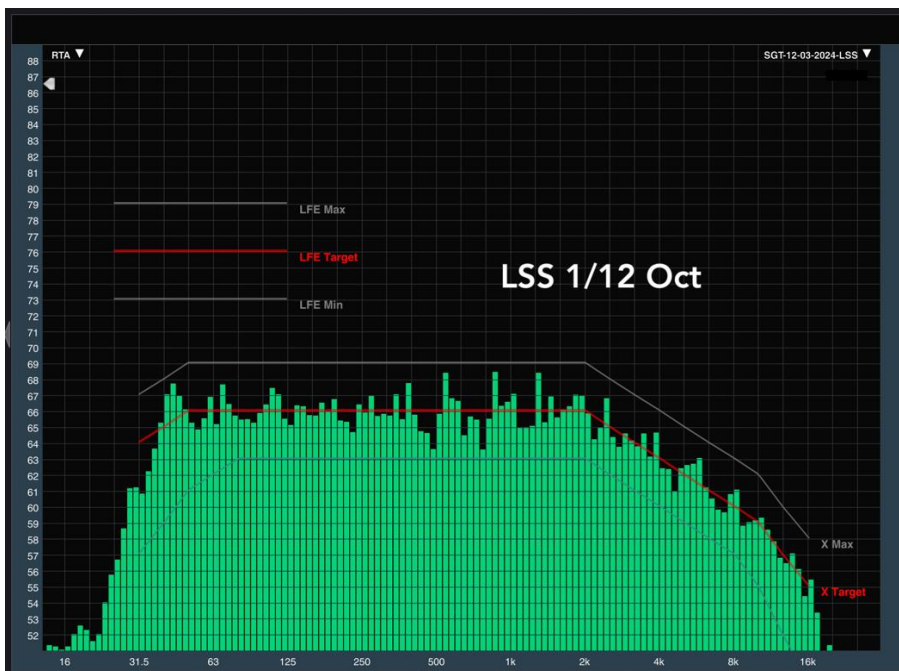
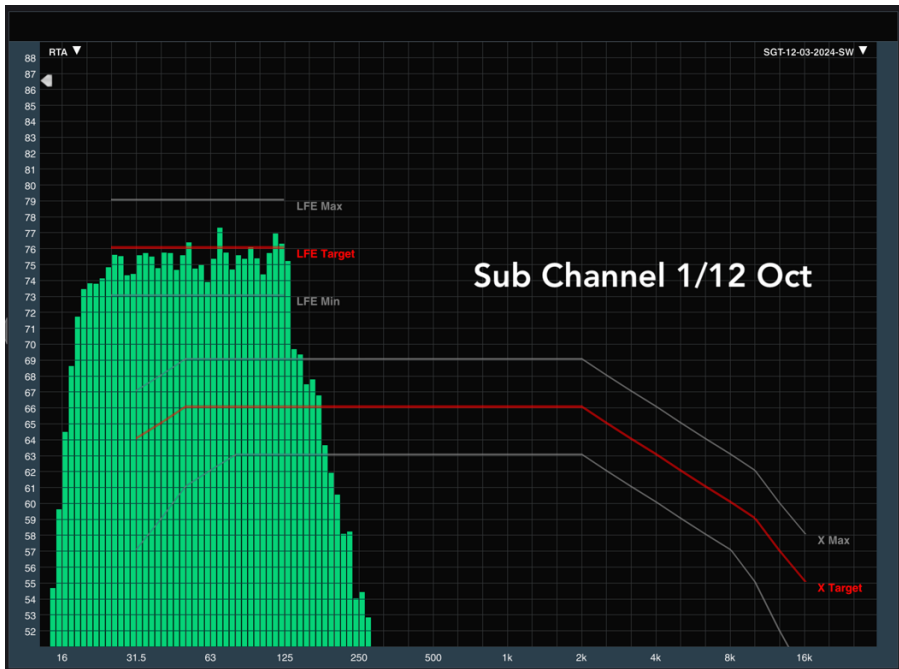
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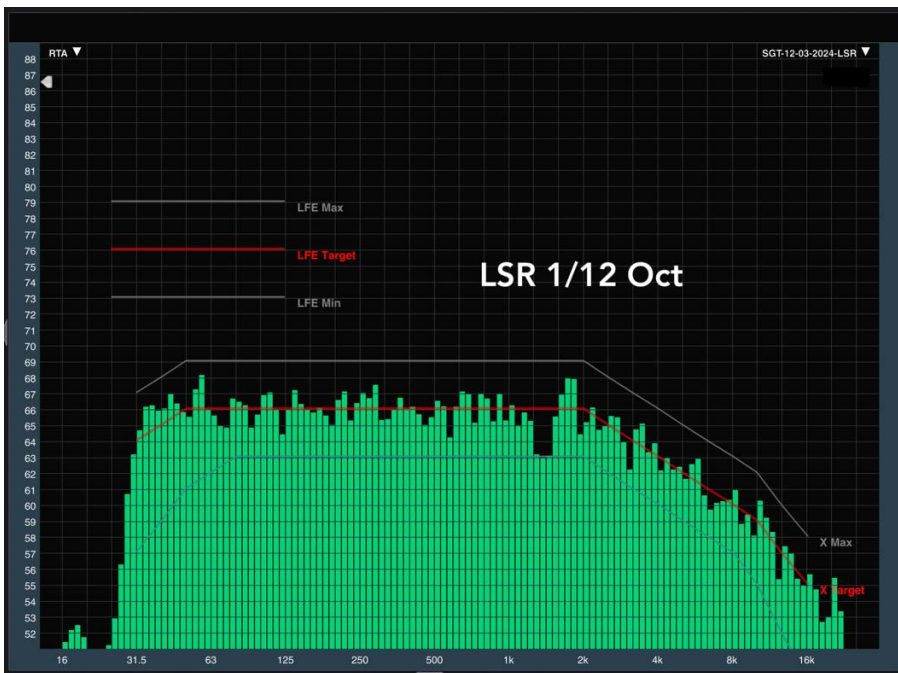
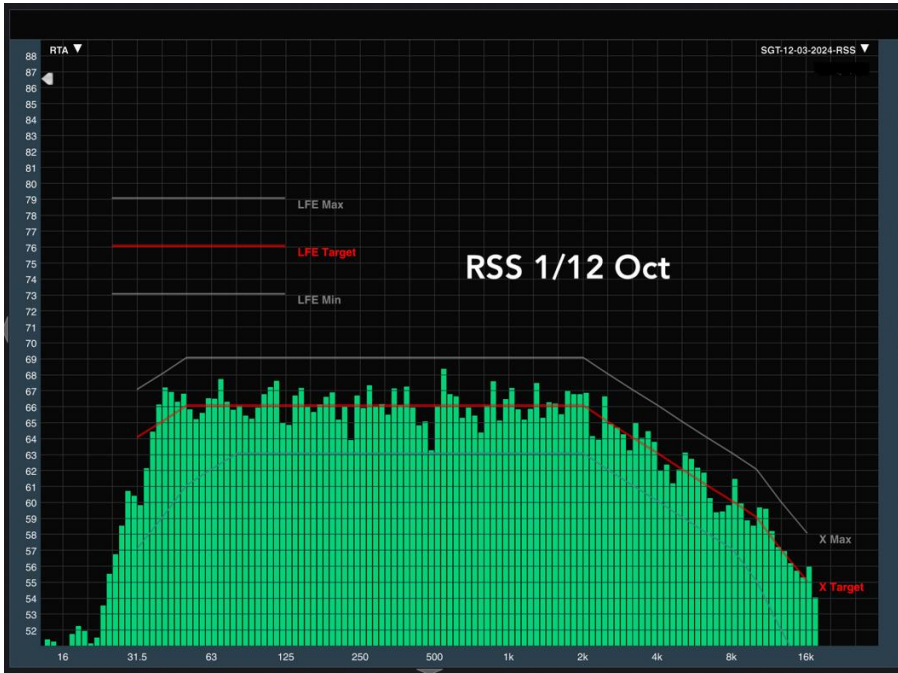
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Academy of Motion Picture Arts and Sciences- Samuel Goldwyn Theatre
Screen and Sub Alignment Microphone Positions
An Eight Microphone Multiplex
January 5, 2016

